

Recombinant Human DGKD Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. DGKD-3400H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	DGKD MS Standard C13 and N15-labeled recombinant protein (NP_690618) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
Description	This gene encodes a cytoplasmic enzyme that phosphorylates diacylglycerol to produce phosphatidic acid. Diacylglycerol and phosphatidic acid are two lipids that act as second messengers in signaling cascades. Their cellular concentrations are regulated by the encoded protein, and so it is thought to play an important role in cellular signal transduction. Alternative splicing results in two transcript variants encoding different isoforms.
Molecular Mass	134.3 kDa
AA Sequence	MAAAAGAPPPGPPQPPPPPPPEESSDSEPEAEPGSPQKLIRKVSTSGQIRQKTIIE GMLTKQNNFQRSKRRYFKLRGRTLYYAKTAKSIIFDEVLDLTASVAESSTKNVNN FTVITPCRKLILCADNRKEMEDWIAALKTVQNREHFPTQYSMDHFSGMHNWYACS HARPTYCNVCREALSGVTSHGLSCEVCKFKAHKRCAVRATNNCKWTTLASIGKDIIE DADGIAMPHQWLEGNLPVSAKCTVCDKTCGSVLRQLQDWRCWLWCKAMVHTSCKESL LTKCPLGLCKVSVIPPTALNSIDSDGFWKASCPPSCTSPLLVFVNSKSGDNQGVKFL RRFKQLLNPAQVFDLMNGGPHLGLRFLQKFDTRILVCGGDGSGVWVLSEIDSLNL

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HKQCQLGVLPLGTGNDLARVLGWGSACDDDTQLPQILEKLERASTKMLDRWSVMA
 YEAKLPRQASSSTVTEDFSEDSEVQQILFYEDSVAAHLSKILTSDQHSVVISSAKVLC
 ETVKDFVARVGKAYEKTTESESESEVMAKKCSVLKEKLDSSLKTLDDSQASSSLPN
 PPPTIAEEAEDGDGSGSICGSTGDRLVASACPARPQIFRPREQLMLRANSLKKAIRQI
 IEHTEKAVDEQNAQTQE QEGFVLGLSESEEKMDHRVCPPLSHSESFGVPKGRSQR
 KVSKSPCEKLISKGSLSLGSSASLPPQPGSRDGLPALNTKILYPNVRAGMSGSLPGG
 SVISRLINADPFNSEPETLEYTEKCMNNYFGIGLDAKISLDFNNKRDEHPEKCRS
 RTKNMMWYGVLTGKELLHRTYKNLEQKVILLECDGRPIPLSLQGIAVLNIPSYAGGT
 NFWGGTKEDDTFAAPSFDDKILEVVAVFGSMQMAVSRVIRLQHHRIAQCRTVKISIL
 GDEGVPVQVDGEAWVQPPGYIRIVHKNRAQTLTRDRAFESTLKSWEKQKCELPR
 PPSCSLHPEMLSEEEATQMDQFGQAAGVLIHSIREIAQSHRDMEQELAHAVNASSK
 SMDRVYGKPRTEGLNCSFVLEMVNNFRALRSETELLSSGKMALQLDPPQKEQLGS
 ALAEMDRQLRRLADTPWLCQSAEPGDEESVMLDLAKRSRSGKFRLVTKFKEKNN
 KNKEAHSSLGAPVHLWGTEEVAAWLEHLSLCEYKDIFTRHDIRGSELLHLERRDLKD
 LGVTKVGHMKRILCGIKELSRSAPEATRTRPLEQKLISEEDLAANDILDYKDDDDK
 V

Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining
Stability	Stable for 3 months from receipt of products under proper storage and handling conditions.
Storage	Store at -80 centigrade. Avoid repeated freeze-thaw cycles.
Concentration	50 µg/mL as determined by BCA
Storage Buffer	100 mM glycine, 25 mM Tris-HCl, pH 7.3.

GENE INFORMATION

Gene Name	DGKD diacylglycerol kinase delta [Homo sapiens (human)]
Official Symbol	DGKD
Synonyms	DGKD; diacylglycerol kinase, delta 130kDa; diacylglycerol kinase, delta (130kD); diacylglycerol kinase delta; DGKdelta; diglyceride kinase; KIAA0145; DGK-delta; DAG kinase delta; diglyceride kinase delta; dgkd-2; FLJ26930;
Gene ID	8527
mRNA Refseq	NM_152879
Protein Refseq	NP_690618
MIM	601826
UniProt ID	Q16760
SDS-PAGE	